

CLAIMS

1. Antenna arrangement to be provided in a portable communication device, wherein the antenna arrangement (10) comprises:
 - 5 a first antenna patch (12) to be connected to a first feeding potential (V_1), and a second antenna patch (14) to be connected to a second feeding potential (V_2), preferably a ground point, said antenna patches (12, 14) being adapted to comprise capacitance feeding being frequency dependent.
- 10 2. Antenna arrangement according to claim 1, wherein said first and second antenna patches (12, 14) are separated by a gap (17) comprising dielectric or forming material.
- 15 3. Antenna arrangement according to claim 1 or 2, wherein the dielectric material has low dielectric constant.
4. Antenna arrangement according to any one of the claims 1-3, wherein the length of the gap (17) is between 0,1 to 0,3 % of a wavelength coming from/to a source (S).
- 20 5. Antenna arrangement according to any one of the claims 1 to 4, wherein the second feeding (V_2) potential is ground potential.
- 25 6. Antenna arrangement according to any one of the claims 1-5, wherein the antenna patches (12, 14) have a length approaching a quarter wavelength at the operating frequency band.
7. Antenna arrangement according to any one of the preceding claims, wherein the connection (18) between the first feeding potential (V_1), provided by radio circuit (a source) (S) and first patch (12) is screened.
- 30 8. Antenna arrangement according to any one of the preceding claims, wherein the radio circuit (S) is connected to the first antenna patch (12) at an edge thereof.
- 35 9. Portable communication device, said device (200) comprising a chassis (210) having a microphone (220), a speaker opening 230, and a keypad (240), wherein the device (200) further comprises an antenna arrangement (10), said antenna arrangement (10) comprising:

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a first antenna patch (12) to be connected to a first feeding potential (V_1), and a second antenna patch (14) to be connected to a second feeding potential (V_2), said antenna patches (12, 14) being adapted to comprise capacitance feeding being frequency dependent.